

DATE: Thursday, July 07, 2005

WEST

<u>Set</u> <u>Name</u> side by side	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<u>L17</u>	L16 and (vector or plasmid or polynucleotide).clm.	11	<u>L17</u>
<u>L16</u>	L15 and (NGF and treat\$).clm.	15	<u>L16</u>
<u>L15</u>	L11 and (vector or plasmid)	267	<u>L15</u>
<u>L14</u>	L11 and polynucleotide	143	<u>L14</u>
<u>L13</u>	L12 and polynucleotide	61	<u>L13</u>
<u>L12</u>	L11 and lentivir\$	76	<u>L12</u>
<u>L11</u>	L10 and NGF	269	<u>L11</u>
<u>L10</u>	L9 and Alzheimer\$	410	<u>L10</u>
<u>L9</u>	L8 and gene therapy	1010	<u>L9</u>
<u>L8</u>	L5 and (neurotrophin or neurotrophic or NGF or nerve growth factor)	1261	<u>L8</u>
<u>L7</u>	L5 and (neurotrophin or neurotrophic)	597	<u>L7</u>
<u>L6</u>	L5 and NGF	738	<u>L6</u>
<u>L5</u>	L1 or L2 or L3 or L4	9903	<u>L5</u>
<u>L4</u>	424/93.21.ccls.	1747	<u>L4</u>
<u>L3</u>	424/93.2.ccls.	2018	<u>L3</u>
<u>L2</u>	424/93.1.ccls.	923	<u>L2</u>
<u>L1</u>	514/44.ccls.	7055	<u>L1</u>

END OF SEARCH HISTORY

Am2
7/7/05

? ds

Set	Items	Description
S1	10874	ALZHEIMER? AND (NEUROTROPHIN OR NEUROTROPHIC OR NGF OR NERVE (W) GROWTH (W) FACTOR)
S2	352	S1 AND GENE (W) THERAPY
S3	251	RD (unique items)
S4	91	S3 AND CLINICAL
S5	37	S4 AND TRIAL
?		

Dialog

file: medicine

Amz

7/7/05

A specific clinical protocol for use toward therapy of defective, diseased and damaged cholinergic neurons in the mammalian brain, of particular usefulness for treatment of neurodegenerative conditions such as Alzheimer's disease. The protocol is practiced by delivering a definite concentration of recombinant neurotrophin into, or within close proximity of, identified defective, diseased or damaged brain cells. Using a viral vector, the concentration of neurotrophin delivered as part of a neurotrophic composition varies from 10×10^6 to 10×10^{15} neurotrophin encoding viral particles/ml of composition fluid. Each delivery site receives from 2.5 μ l to 25 μ l of neurotrophic composition, delivered slowly, as in over a period of time ranging upwards of 10 minutes/delivery site. Each delivery site is at, or within 500 μ m of, a targeted cell, and no more than about 10 mm from another delivery site. Stable in situ neurotrophin expression can be achieved for 12 months, or longer.

17 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw De
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☒ 5. Document ID: US 6171821 B1 Relevance Rank: 55

L12: Entry 18 of 21

File: USPT

Jan 9, 2001

US-PAT-NO: 6171821

DOCUMENT-IDENTIFIER: US 6171821 B1

TITLE: XIAP IRES and uses thereof

DATE-ISSUED: January 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Korneluk; Robert G.	Ottawa			CA
Holcik; Martin	Ottawa			CA
Liston; Peter	Ottawa			CA

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Apoptogen, Inc.	Ottawa			CA	03

APPL-NO: 09/ 332319 [PALM]

DATE FILED: June 14, 1999

PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATIONS This application is a continuation-in-part of U.S. Ser. No. 09/121,979, filed Jul. 24, 1998.

INT-CL: [07] C12 P 21/06, C12 P 19/34, C12 Q 1/68, C12 N 15/00, A61 K 48/00

US-CL-ISSUED: 435/69.1; 435/6, 435/91.1, 435/320.1, 435/325, 435/375, 536/24.1, 514/44

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 435/375, 435/6, 435/91.1, 514/44, 536/24.1

FIELD-OF-SEARCH: 536/23.1, 536/24.5, 536/24.3, 536/24.33, 435/6, 435/91.1, 435/93.1, 435/320.1, 435/69.1

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5358856</u>	October 1994	Baltimore et al.	435/69.1

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
WO 96/11211	April 1996	WO	
WO 97/06182	February 1997	WO	
WO 97/06255	February 1997	WO	
WO 97/26331	July 1997	WO	
WO 98/21321	May 1998	WO	
WO 98/22131	May 1998	WO	
WO 98/35693	August 1998	WO	

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ART-UNIT: 165

PRIMARY-EXAMINER: Elliott; George C.

ASSISTANT-EXAMINER: Epps; Janet L.

ATTY-AGENT-FIRM: Clark & Elbing LLP Bierker-Brady; Kristina

ABSTRACT:

The invention features purified nucleic acid encoding a novel internal ribosome entry site (IRES) sequence from the X-linked inhibitor of apoptosis (XIAP) gene. The invention also features methods for using the XIAP IRES to increase cap-independent translation of polypeptide coding sequences linked to the XIAP IRES, and methods for isolating compounds that modulate cap-independent translation.

29 Claims, 14 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
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☒ 6. Document ID: US 20030096787 A1 Relevance Rank: 55

L12: Entry 4 of 21

File: PGPB

May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030096787

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030096787 A1

TITLE: Defective adenovirus vectors and use thereof in gene therapy

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Perricaudet, Michel	Ecrosnes		FR	
Vigne, Emmanuelle	Ivry-sur-Seine		FR	
Yeh, Patrice	Paris		FR	

APPL-NO: 10/ 301085 [PALM]

DATE FILED: November 21, 2002

RELATED-US-APPL-DATA:

Application 10/301085 is a continuation-of US application 08/397225, filed March 28, 1995, PENDING

Application 08/397225 is a continuation-of US application PC/T/FR94/00851, filed July 8, 1994, UNKNOWN

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
FR	93/08596	1993FR-93/08596	July 13, 1993
FR	94/04590	1994FR-94/04590	April 18, 1994

INT-CL: [07] A61 K 48/00

US-CL-PUBLISHED: 514/44; 424/93.2

US-CL-CURRENT: 514/44; 424/93.2

REPRESENTATIVE-FIGURES: NONE

ABSTRACT:

Novel adenovirus-derived viral vectors, the preparation thereof, and the use thereof in gene therapy, are disclosed.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Da
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☒ 7. Document ID: US 5837694 A Relevance Rank: 55

L12: Entry 20 of 21

File: USPT

Nov 17, 1998

US-PAT-NO: 5837694

DOCUMENT-IDENTIFIER: US 5837694 A

**** See image for Certificate of Correction ****

TITLE: Method for enhancing neurone survival and agents useful for same

DATE-ISSUED: November 17, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barrett; Graham Leslie	Northcote			AU

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
The Walter and Eliza Hall Institute of Medical Research						03

APPL-NO: 08/ 633792 [PALM]

DATE FILED: July 1, 1996

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
AU	PM 1870	October 18, 1993

PCT-DATA:

APPL-NO	DATE-FILED	PUB-NO	PUB-DATE	371-DATE	102(E)-DATE
PCT/AU94/00631	October 18, 1994	WO95/11253	Apr 27, 1995	Jul 1, 1996	Jul 1, 1996

INT-CL: [06] A61 K 48/00, C07 H 71/04, C12 Q 1/68, C12 N 15/85

US-CL-ISSUED: 514/44; 435/6, 435/91.1, 435/325, 435/366, 435/375, 536/23.1,

536/24.31, 536/24.5

US-CL-CURRENT: 514/44; 435/325, 435/366, 435/375, 435/6, 435/91.1, 536/23.1,
536/24.31, 536/24.5

FIELD-OF-SEARCH: 514/44, 536/23.1, 536/24.5, 536/24.31, 435/6, 435/91.1, 435/375,
435/325, 435/366

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5585479</u>	December 1996	Hoke et al.	536/24.5

OTHER PUBLICATIONS

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Wagner, R.W. (1994) "Gene Inhibition Using Antisense Oligodeoxynucleotides " Nature (372):333-335.

International Patent Application PCT/US93/08446 (Int. Publication No. Wo 94/06935).

ART-UNIT: 165

PRIMARY-EXAMINER: LeGuyander; John L.

ASSISTANT-EXAMINER: Wang; Andrew

ATTY-AGENT-FIRM: Scully, Scott, Murphy & Presser

ABSTRACT:

Antisense oligonucleotides to nerve growth factor receptor, p75.sup.NGFR gene downregulate expression, thereby facilitating neurone survival.

14 Claims, 14 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWAC	Draw D
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☒ 8. Document ID: US 6451306 B1 Relevance Rank: 55

L12: Entry 15 of 21

File: USPT

Sep 17, 2002

US-PAT-NO: 6451306

DOCUMENT-IDENTIFIER: US 6451306 B1

**** See image for Certificate of Correction ****

TITLE: Methods for therapy of neurodegenerative disease of the brain

DATE-ISSUED: September 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tuszynski; Mark H.	La Jolla	CA		
Gage; Fred	La Jolla	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
The Regents of the University of California	Oakland	CA			02	

APPL-NO: 09/ 060543 [PALM]

DATE FILED: April 15, 1998

INT-CL: [07] A01 N 63/00, A01 N 43/04, C12 N 15/00, C12 N 15/63

US-CL-ISSUED: 424/93.21; 424/93.2, 514/44, 435/320.1, 435/455

US-CL-CURRENT: 424/93.21; 424/93.2, 435/320.1, 435/455, 514/44

FIELD-OF-SEARCH: 514/44, 424/93.2, 424/93.21, 435/172.1, 435/455, 435/320.1

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5650148</u>	July 1997	Gage et al.	424/93.2
<u>5762926</u>	June 1998	Gage et al.	424/93.21

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
WO 90/06757	June 1990	WO	

OTHER PUBLICATIONS

Blesch et al., Clinical Neuroscience, vol. 3, p, 268-274, 1996.*
Yang et al., Journal of Neurotrauma, vol. 14(5), p. 281-297, May 1997.

ART-UNIT: 1632

PRIMARY-EXAMINER: Priebe; Scott D.

ASSISTANT-EXAMINER: Chen; Shin-Lin

ATTY-AGENT-FIRM: Foley & Lardner

ABSTRACT:

The invention provides a specific protocol for use in grafting donor cells genetically modified to produce nerve growth factors into grafting sites within the cholinergic basal forebrain and is especially useful in treating neurodegenerative conditions such as Alzheimer's Disease. Grafting sites are selected for proximity to previously identified defective, diseased or damaged brain cells. Each graft is situated no more than about 550 .mu.m from a targeted cell and no more than about 5 mm from another graft. Depending on the size of the region to be treated, the number of grafting sites will vary upwards of 10 sites, with between 5 and 10 sites serving to deliver a therapeutically significant dosage of nerve growth factors to targeted cells. Donor cells are delivered in a composition concentration of at least 1.times.10.sup.5 cells/.mu.l, wherein each graft is comprised of between 2 and 20 .mu.l of the donor cell composition. The composition is delivered to each grafting site over a period of about 5-10 minutes.

12 Claims, 0 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 9. Document ID: US 6815431 B2 Relevance Rank: 55

L12: Entry 12 of 21

File: USPT

Nov 9, 2004

US-PAT-NO: 6815431

DOCUMENT-IDENTIFIER: US 6815431 B2

TITLE: Methods for therapy of neurodegenerative disease of the brain

DATE-ISSUED: November 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tuszynski; Mark H.	La Jolla	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
Regents of the University of California	Oakland	CA				02

APPL-NO: 10/ 032952 [PALM]

DATE FILED: October 26, 2001

PARENT-CASE:

RELATED U.S. PATENT APPLICATIONS This is a continuation-in-part of, and claims the priority of, U.S. patent application, Ser. No. 09/620,174 filed on Jul. 19, 2000, now U.S. Pat. No. 6,683,058, which in turns is a continuation in part of Ser. No. 09/060,543, filed on Apr. 15, 1998, now U.S. Pat. No. 6,451,306,

INT-CL: [07] A01 N 43/04, A01 N 63/00, C12 N 15/00, C12 N 15/63, C07 H 21/04

US-CL-ISSUED: 514/44; 435/320.1, 435/455, 424/93.2, 424/93.21, 536/23.5

US-CL-CURRENT: 514/44; 424/93.2, 424/93.21, 435/320.1, 435/455, 536/23.5

FIELD-OF-SEARCH: 435/320.1, 435/455, 424/93.2, 424/93.21, 514/44, 536/23.5

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5082670</u>	January 1992	Gage et al.	424/520
<u>5529774</u>	June 1996	Barba et al.	424/93.21
<u>5650148</u>	July 1997	Gage et al.	424/93.2
<u>5683695</u>	November 1997	Shen et al.	424/185.1
<u>5756312</u>	May 1998	Weiner et al.	435/69.3
<u>5762926</u>	June 1998	Gage et al.	424/93.21

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
WO 90/06757	June 1990	WO	

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Felgner et al., "Cationic liposome mediated transfection" Focus. (1989) 11:21-25.

Felgner et al., "Lipofection: a highly efficient, lipid-mediated DNA-transfection procedure" Proc. Natl. Acad. Sci. (1987) 84:7413-7.

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ART-UNIT: 1632

PRIMARY-EXAMINER: Chen; Shin-Lin

ATTY-AGENT-FIRM: Foley & Lardner, LLP

ABSTRACT:

A specific clinical protocol for use toward therapy of defective, diseased and damaged neurons in the mammalian brain, of particular usefulness for treatment of neurodegenerative conditions such as Parkinson's disease and Alzheimer's disease. The protocol is practiced by directly delivering a definite concentration of recombinant neurotrophin, into a targeted region of the brain using an expression vector. The neurotrophin is delivered to, or within close proximity of, identified defective, diseased or damaged brain cells. The method stimulates growth of targeted neurons, and reversal of functional deficits associated with the neurodegenerative disease being treated.

14 Claims, 7 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Da
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☒ 10. Document ID: US 20030027779 A1 Relevance Rank: 55

L12: Entry 6 of 21

File: PGPB

Feb 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030027779

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030027779 A1

TITLE: Method for inducing DNA synthesis in neurons

PUBLICATION-DATE: February 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
------	------	-------	---------	---------

Neuman, Toomas	Fort Collins	CO	US
Suda, Kikuo	Shizuoka	CO	JP
Nornes, Howard O.	Fort Collins		US

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
Spinal Cord Society				02

APPL-NO: 10/ 057777 [PALM]

DATE FILED: January 25, 2002

RELATED-US-APPL-DATA:

Application 10/057777 is a continuation-of US application 09/408508, filed September 30, 1999, US Patent No. 6372721

Application 09/408508 is a continuation-of US application 08/362495, filed November 18, 1996, US Patent No. 6087171

Application 08/362495 is a continuation-in-part-of US application 08/301416, filed September 8, 1994, ABANDONED

Application 08/301416 is a continuation-in-part-of US application 08/169522, filed December 17, 1993, ABANDONED

INT-CL: [07] A61 K 48/00, A61 K 9/127, C12 N 15/88

US-CL-PUBLISHED: 514/44; 435/458, 424/450

US-CL-CURRENT: 514/44; 424/450, 435/458

REPRESENTATIVE-FIGURES: NONE

ABSTRACT:

A method is provided for inducing DNA synthesis in differentiated neurons. According to certain embodiments of the invention, a method for inducing DNA synthesis in a differentiated neuron is provided that includes obtaining a vector comprising nucleic acid encoding an E2F regulator and/or an E1A regulator, wherein the vector can be used to express the nucleic acid in a differentiated neuron, and transfecting a differentiated neuron with the vector. According to certain embodiments of the invention, a method for integrating DNA encoding a desired protein in a differentiated neuron is provided that includes obtaining a vector comprising nucleic acid encoding an E2F regulator and/or an E1A regulator, wherein the vector can be used to express the nucleic acid in a neuron, obtaining DNA encoding a desired protein, and cotransfecting a differentiated neuron with the vector and the DNA encoding the desired protein such that the DNA encoding the desired protein is integrated in the differentiated neuron and the desired protein is produced.

[0001] This application is a continuation of U.S. patent application Ser. No. 09/408,508 filed Sep. 30, 1999, now issued as U.S. Pat. No. _____, which is a continuation of U.S. patent application Ser. No. 08/362,495, which is a continuation-in-part of application Ser. No. 08/301,416, filed Sep. 8, 1994, abandoned, which is a continuation-in-part of application Ser. No. 08/169,522, filed Dec. 17, 1993, abandoned. In this continuation application and in the parent application, use of the term "E2F" is generic to all forms of E2F. In the present application and in the parent applications, the term Rb is used to represent p.sub.105.sup.Rb.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 11. Document ID: US 6551618 B2 Relevance Rank: 48

L12: Entry 14 of 21

File: USPT

Apr 22, 2003

US-PAT-NO: 6551618

DOCUMENT-IDENTIFIER: US 6551618 B2

TITLE: Compositions and methods for delivery of agents for neuronal regeneration and survival

DATE-ISSUED: April 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Baird; Andrew	San Diego	CA		
Gonzalez; Ana Maria	San Diego	CA		
Logan; Ann	Worcester			GB
Berry; Martin	Birmingham			GB

US-CL-CURRENT: 424/484; 424/468, 424/469, 424/486, 435/320.1, 435/455, 435/91.4, 514/44

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	QAC	Draw D
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☐ 12. Document ID: US 6096716 A Relevance Rank: 48

L12: Entry 19 of 21

File: USPT

Aug 1, 2000

US-PAT-NO: 6096716

DOCUMENT-IDENTIFIER: US 6096716 A

TITLE: Liposome-mediated transfection of central nervous system cells

DATE-ISSUED: August 1, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hayes; Ronald L.	Houston	TX		
Yang; Keyi	Houston	TX		
Faustinella; Fabrizia	Houston	TX		

US-CL-CURRENT: [514/44](#); [424/520](#), [424/570](#), [435/320.1](#), [435/458](#), [435/69.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 13. Document ID: US 20010043920 A1 Relevance Rank: 46

L12: Entry 10 of 21

File: PGPB

Nov 22, 2001

PGPUB-DOCUMENT-NUMBER: 20010043920

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010043920 A1

TITLE: Methods for modulation of the effects of aging on the primate brain

PUBLICATION-DATE: November 22, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tuszynski, Mark H.	La Jolla	CA	US	
Blesch, Armin	San Diego	CA	US	

US-CL-CURRENT: [424/93.21](#); [514/44](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 14. Document ID: US 20030104995 A1 Relevance Rank: 43

L12: Entry 3 of 21

File: PGPB

Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030104995

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030104995 A1

TITLE: Neuroprotective methods and compositions

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reilly, Jennifer Ott	Andover	MA	US	

US-CL-CURRENT: [514/12](#); [424/93.2](#), [514/44](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 15. Document ID: US 20020168338 A1 Relevance Rank: 43

L12: Entry 8 of 21

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020168338
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020168338 A1

TITLE: COMPOSITIONS AND METHODS FOR DELIVERY OF AGENTS FOR NEURONAL REGENERATION
AND SURVIVAL

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
BAIRD, ANDREW			US	

US-CL-CURRENT: 424/93.2; 424/193.1, 424/423, 424/424, 424/425, 424/468, 424/469,
424/486, 435/320.1, 514/44, 536/24.1, 536/24.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 16. Document ID: US 20040138155 A1 Relevance Rank: 43

L12: Entry 1 of 21

File: PGPB

Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040138155
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040138155 A1

TITLE: Devices containing DNA encoding neurotrophic agents and related compositions
and methods

PUBLICATION-DATE: July 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Baird, Andrew	London	CA	GB	
Gonzalez, Ana Maria	San Diego		US	
Logan, Ann	Stourport on Severn		GB	
Berry, Martin	Edgbaston		GB	

US-CL-CURRENT: 514/44; 424/426

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 17. Document ID: US 20010014476 A1 Relevance Rank: 42

L12: Entry 11 of 21

File: PGPB

Aug 16, 2001

PGPUB-DOCUMENT-NUMBER: 20010014476
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010014476 A1

TITLE: CIRCULAR DNA MOLECULE WITH CONDITIONAL ORIGIN OF REPLICATION, METHOD FOR PREPARING THE SAME AND USE THEREOF IN GENE THERAPY

PUBLICATION-DATE: August 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
CROUZET, JOEL	SCEAUX		FR	
SOUBRIER, FABIENNE	THIAIS		FR	

US-CL-CURRENT: 435/455, 435/252.3, 435/252.33, 435/320.1, 435/325, 435/6, 435/91.4, 514/44, 536/23.1, 536/24.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 18. Document ID: US 20020142299 A1 Relevance Rank: 42

L12: Entry 9 of 21

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020142299
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020142299 A1

TITLE: PTD-modified proteins

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Davidson, Beverly L.	Iowa City	IA	US	
Mao, Qinwen	Iowa City	IA	US	
Xia, Haibin	Iowa City	IA	US	

US-CL-CURRENT: 435/6, 435/207, 435/366, 514/44, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 19. Document ID: US 6174869 B1 Relevance Rank: 41

L12: Entry 17 of 21

File: USPT

Jan 16, 2001

US-PAT-NO: 6174869
DOCUMENT-IDENTIFIER: US 6174869 B1

**** See image for Certificate of Correction ****

TITLE: Method for enhancing neurone survival and agents useful for same

DATE-ISSUED: January 16, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barrett; Graham Leslie	Northcote			AU

US-CL-CURRENT: 514/44; 435/325, 435/366, 435/375, 435/6, 435/91.1, 536/23.1,
536/24.5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 20. Document ID: US 20030083301 A1 Relevance Rank: 41

L12: Entry 5 of 21

File: PGPB

May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030083301

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030083301 A1

TITLE: Therapeutic treatments for spinal cord injury via blockade of interleukin-1 receptor

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Perez-Polo, Regino	Galveston	TX	US	
Nesic, Olivera	Galveston	TX	US	

US-CL-CURRENT: 514/44; 435/455, 514/12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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- ☐ 1. Document ID: US 20020193335 A1 Relevance Rank: 71

Using default format because multiple data bases are involved.

L12: Entry 7 of 21

File: PGPB

Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020193335

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020193335 A1

TITLE: Gene therapy for neurological tissues

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hesson, David P.	Malvern	PA	US	
Frazer, Glen D.	Wynnewood	PA	US	
Shook, Bruce	Devon	PA	US	

US-CL-CURRENT: 514/44; 424/93.21

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Ds
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- ☐ 2. Document ID: US 5650148 A Relevance Rank: 57

L12: Entry 21 of 21

File: USPT

Jul 22, 1997

US-PAT-NO: 5650148

DOCUMENT-IDENTIFIER: US 5650148 A

**** See image for Certificate of Correction ****

TITLE: Method of grafting genetically modified cells to treat defects, disease or damage of the central nervous system

DATE-ISSUED: July 22, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gage, Fred H.	La Jolla	CA		
Friedmann, Theodore	La Jolla	CA		

Rosenberg; Michael B.	San Diego	CA	
Wolff; Jon A.	Madison	WI	
Schinstine; Malcolm	San Diego	CA	
Kawaja; Michael D.	Toronto		CA
Ray; Jasodhara	San Diego	CA	

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY	TYPE	CODE
The Regents of the University of California	Oakland	CA					02

APPL-NO: 08/ 209609 [PALM]

DATE FILED: March 10, 1994

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application is a continuation of U.S. Ser. No. 792,894, filed Nov. 15, 1991, now abandoned which was is a continuation-in-part of patent application U.S. Ser. No. 285,196, filed Dec. 15, 1988, now U.S. Pat. No. 5,082,670, the entire disclosure of which is expressly incorporated by reference herein.

INT-CL: [06] A61 K 48/00, A61 K 31/00, C12 N 15/00, C12 N 5/00

US-CL-ISSUED: 424/93.2; 424/93.21, 435/172.3, 435/948, 514/44, 935/62, 935/70

US-CL-CURRENT: 424/93.2; 424/93.21, 435/948, 514/44

FIELD-OF-SEARCH: 424/93.21, 424/570, 435/172.3, 435/240.2, 435/948, 935/62, 935/70, 514/44

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4497796</u>	February 1985	Salser et al.	
<u>5082670</u>	January 1992	Gage et al.	424/520
<u>5399346</u>	March 1995	Anderson	

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0289034	April 1988	EP	
0334301	March 1989	EP	
0474979	November 1991	EP	
WOA8902468	March 1989	WO	
8902468	March 1989	WO	
8911539	November 1989	WO	
WOA9006757	June 1990	WO	
WOA9209688	June 1992	WO	

OTHER PUBLICATIONS

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ART-UNIT: 189

PRIMARY-EXAMINER: Chambers; Jasmine C.

ATTY-AGENT-FIRM: Merchant, Gould, Smith, Edell, Welter and Schmidt

ABSTRACT:

Methods of genetically modifying donor cells by gene transfer for grafting into the central nervous system to treat defective, diseased or damaged cells are disclosed. The modified donor cells produce functional molecules that effect the recovery or improved function of cells in the CNS. Methods and vectors for carrying out gene transfer and grafting are described.

74 Claims, 134 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KINC	Draw De
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☒ 3. Document ID: US 6180613 B1 Relevance Rank: 56

L12: Entry 16 of 21

File: USPT

Jan 30, 2001

US-PAT-NO: 6180613

DOCUMENT-IDENTIFIER: US 6180613 B1

TITLE: AAV-mediated delivery of DNA to cells of the nervous system

DATE-ISSUED: January 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kaplitt; Michael G.	New York	NY		
During; Matthew J.	Weston	CT		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
The Rockefeller University	New York	NY			02
Yale University	New Haven	CT			02

APPL-NO: 08/ 467044 [PALM]

DATE FILED: June 6, 1995

PARENT-CASE:

RELATED APPLICATION This application is a continuation-in-part of application U.S. Ser. No. 08/227,319 filed on Apr. 13, 1994, now abandoned.

INT-CL: [07] A01 N 43/04, A61 K 31/70, C12 N 15/63, C12 N 15/00

US-CL-ISSUED: 514/44; 435/320.1, 435/455, 435/456

US-CL-CURRENT: 514/44; 435/320.1, 435/455, 435/456

FIELD-OF-SEARCH: 514/44, 435/320.1, 435/455, 435/456

PRIOR-ART-DISCLOSED:

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PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4797368</u>	January 1989	Carter	435/320
<u>5139941</u>	August 1992	Muzyczka et al.	435/172.3
<u>5173414</u>	December 1992	Lebkowski et al.	435/172.3
<u>5252479</u>	October 1993	Srivastava	435/235.1
<u>5585479</u>	December 1996	Hoke et al.	536/24.5

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
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WO 95/13391	May 1995	WO	
WO 95/13365	May 1995	WO	
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Spaete et al. (1982) Cell 30:295-304.

ART-UNIT: 162

PRIMARY-EXAMINER: Chambers; Jasmine

ASSISTANT-EXAMINER: Martin; Jill D.

ATTY-AGENT-FIRM: Klauber & Jackson

ABSTRACT:

The invention relates to a method of delivering exogenous DNA to a target cell of the mammalian central nervous system using an adeno-associated virus (AAV)-derived vector. Also included in the invention are the AAV-derived vectors containing exogenous DNA which encodes a protein or proteins which treat nervous system disease, and a method of treating such disease.

15 Claims, 11 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw D
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L12: Entry 13 of 21

File: USPT

Jan 27, 2004

US-PAT-NO: 6683058

DOCUMENT-IDENTIFIER: US 6683058 B1

TITLE: Methods for therapy of neurodegenerative disease of the brain

DATE-ISSUED: January 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tuszynski; Mark H.	La Jolla	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Regents of the University of California	Oakland	CA			02

APPL-NO: 09/ 620174 [PALM]

DATE FILED: July 19, 2000

PARENT-CASE:

RELATED U.S. PATENT APPLICATIONS This is a continuation-in-part of, and claims the priority of, U.S. patent application, Ser. No. 09/060,543, which was filed on Apr. 15, 1998, now U.S. Pat. No. 6,451,306.

INT-CL: [07] A01 N 43/04, A01 N 63/00, C12 N 15/00, C12 N 15/63, C07 H 21/04

US-CL-ISSUED: 514/44; 435/320.1, 435/455, 424/93.2, 424/93.21, 536/23.5

US-CL-CURRENT: 514/44; 424/93.2, 424/93.21, 435/320.1, 435/455, 536/23.5

FIELD-OF-SEARCH: 514/44, 435/320.1, 435/455, 424/93.2, 424/93.21, 536/23.5

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
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<u>5529774</u>	June 1996	Barba et al.	424/93.21
<u>5650148</u>	July 1997	Gage et al.	424/93.2
<u>5683695</u>	November 1997	Shen et al.	424/185.1
<u>5756312</u>	May 1998	Weiner et al.	435/69.3
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ABSTRACT: